

#2

OIKE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/867,947

DATE: 11/30/2001

TIME: 16:10:56

Input Set : N:\Crf3\RULE60\09867947.txt

Output Set: N:\CRF3\11212001\I867947.raw

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3 <110> APPLICANT: Kingsman, et al
5 <120> TITLE OF INVENTION: Retroviral Vectors
7 <130> FILE REFERENCE: 674523-2006
9 <140> CURRENT APPLICATION NUMBER: 09/867,947
10 <141> CURRENT FILING DATE: 2001-05-29
12 <150> PRIOR APPLICATION NUMBER: 09/238,356
13 <151> PRIOR FILING DATE: 1999-01-27
15 <160> NUMBER OF SEQ ID NOS: 64
17 <170> SOFTWARE: PatentIn version 3.0
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20 <211> LENGTH: 381
21 <212> TYPE: RNA
22 <213> ORGANISM: Equine infectious anemia virus
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29 caguuggcgc ccgaacaggg accugagggg ggcagaccc uaccuguuga accuggcuga      180
31 ucguaggauccc cccgggacag cagaggagaa cuuacagaag ucuucuggag gugnuccugg      240
33 ggagaacaca ggaggacagg uaagauggga gacccuuuga cauggagcaa ggcgcucaag      300
35 aaguuaagaa ggugacggua caagggucuc aguuacucuc gguaacugua auugggcgcu      360
37 aagucuaggu agacuuauuu c                                     381
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43 <213> ORGANISM: Artificial Sequence
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46 <221> NAME/KEY: misc_feature
47 <222> LOCATION: (1)..(41)
48 <223> OTHER INFORMATION: sequence showing part of split polyA signal
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56 <211> LENGTH: 60
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence, primer
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61 <221> NAME/KEY: misc_feature
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63 <223> OTHER INFORMATION: sequence showing the part of split polyA signal
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72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <221> NAME/KEY: misc_feature

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77 <222> LOCATION: (1)..(63)
78 <223> OTHER INFORMATION: sequence showing both the parts of polyA signal
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82 aataaagggc aggtaagctc cacagggtgc cactccagtt ctgtgtgttg gttttttgtg      60
84 tgt                                                                    63
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88 <211> LENGTH: 50
89 <212> TYPE: DNA
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <221> NAME/KEY: polyA_signal
94 <222> LOCATION: (1)..(50)
95 <223> OTHER INFORMATION: sequence of the polyA signal
98 <400> SEQUENCE: 5
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103 <211> LENGTH: 33
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence, primer
107 <220> FEATURE:
108 <221> NAME/KEY: misc_feature
109 <222> LOCATION: (1)..(33)
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113 <400> SEQUENCE: 6
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118 <211> LENGTH: 57
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence, primer
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124 <222> LOCATION: (1)..(57)
125 <223> OTHER INFORMATION: primer
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133 <211> LENGTH: 30
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147 <210> SEQ ID NO: 9
148 <211> LENGTH: 27
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence, primer

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154 <222> LOCATION: (1)..(27)
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170 <223> OTHER INFORMATION: primer
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183 <221> NAME/KEY: misc_feature
184 <222> LOCATION: (1)..(53)
185 <223> OTHER INFORMATION: primer
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200 <223> OTHER INFORMATION: primer
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208 <211> LENGTH: 41
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210 <213> ORGANISM: Artificial Sequence,primer
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213 <221> NAME/KEY: misc_feature
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215 <223> OTHER INFORMATION: primer
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222 <210> SEQ ID NO: 14
223 <211> LENGTH: 11299
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225 <213> ORGANISM: Artificial Sequence

227 <220> FEATURE:

228 <221> NAME/KEY: misc_feature

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230 <223> OTHER INFORMATION: plasmid

233 <300> PUBLICATION INFORMATION:

234 <308> DATABASE ACCESSION NO: AX003194

235 <309> DATABASE ENTRY DATE: 2000-08-24

236 <313> RELEVANT RESIDUES: (1)..(11299)

238 <400> SEQUENCE: 14

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243 gatagggttg agtggttggtc cagtttgga caagagtcca ctattaaaga acgtggactc      180
245 caacgtcaaa gggcgaaaaa ccgtctatca gggcgatggc ccactacgtg aaccatcacc      240
247 ctaatcaagt tttttggggg cgaggtgccc taaagcacta aatcggaacc ctaaagggag      300
249 cccccgattt agagcttgac ggggaaagcc aacctggcct atcgaaatta atacgactca      360
251 ctataggggg accggcagat ctgagtcctg tacataactt acggtaaatg gcccgcctgg      420
253 ctgaccgccc aacgaccccc gccattgac gtcaataatg acgtatgttc ccatagtaac      480
255 gccaataggg actttccatt gacgtcaatg ggtggagtat ttacggtaaa ctgcccactt      540
257 ggcagtacat caagtgtatc atatgccaa gacgccccct attgacgtca atgacggtaa      600
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261 catctacgta ttagtcatcg ctattaccat ggtgatgcgg ttttggcagt acatcaatgg      720
263 gcgtggatag cggtttgact cacggggatt tccaagtctc caccgccatt acgtcaatgg      780
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275 cagttggcgc ccgaacaggg acctgagagg ggcgcagacc ctacctgttg aacctggtg      1140
277 atcgtaggat ccccgggaca gcagaggaga acttacagaa gtcttctgga ggtgttcctg      1200
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303 aacgaccccc gccattgac gtcaataatg acgtatgttc ccatagtaac gccaataggg      1980
305 actttccatt gacgtcaatg ggtggagtat ttacggtaaa ctgcccactt ggcagtacat      2040
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309 tggcattatg ccagtagcat gaccttatgg gactttccta cttggcagta catctacgta      2160
311 ttagtcatcg ctattaccat ggtgatgcgg ttttggcagt acatcaatgg gcgtggatag      2220
313 cggtttgact cacggggatt tccaagtctc caccgccatt acgtcaatgg gagtttgggt      2280
315 tggcaccaaa atcaacggga ctttccaaaa tgcgtaaca actccgcccc attgacgcaa      2340

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321	tccag	cctcc	gcggc	cccaa	gcttc	agctg	ctcgag	gagat	tgcgga	tcgg	gggaa	ttccc	2520
323	cagtct	cagg	atccac	catg	gggat	ccccg	tcgtttt	taca	acgtc	gtgac	tggga	aaaacc	2580
325	ctggc	gttac	ccaact	taaat	cgcctt	gcag	cacat	cccc	tttcg	ccagc	tggcg	taata	2640
327	gcgaag	aggc	ccgcac	cgat	cgcctt	ctcc	aacagt	ttgcg	cagct	gaat	ggcga	aatggc	2700
329	gctttg	cctg	gtttc	cgga	ccaga	agcgg	tgccg	gaaag	ctggc	tggag	tgcga	tcttc	2760
331	ctgagg	ccga	tactgt	ctgc	gtccc	ctca	actgg	cagat	gcacg	gttac	gatgc	gcccc	2820
333	tctac	accaa	cgtaa	cctat	cccatt	acgg	tcaat	ccgcc	gtttg	ttccc	acggag	aatc	2880
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341	ccggag	aaaa	ccgcct	cgcg	gtgat	ggtgc	tgcggt	tggag	tgacg	gcagt	tatct	ggaag	3120
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345	ctacaca	aat	cagcg	atttc	catgt	tgcga	ctcgt	tttaa	tgatg	atttc	agccg	cgctg	3240
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411	cggcg	cggtg	tggc	ctgaac	tgccag	ctgg	cgcag	gtagc	agagc	gggta	aactg	gctcg	5220
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